

Report on the RF Testing of:

KYOCERA Corporation
Mobile Phone, Model: EB1065
FCC ID: JOYEB1065

In accordance with FCC Part 15 Subpart C
(15.209)

Prepared for: KYOCERA Corporation
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Japan

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Document Number: JPD-TR-20231-0

| SIGNATURE | | | |
|----------------|----------------------------|--------------------|-------------|
| | | | |
| NAME | JOB TITLE | RESPONSIBLE FOR | ISSUE DATE |
| Hiroaki Suzuki | Deputy Manager of RF Group | Approved Signatory | 21 JAN 2021 |

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Japan Ltd. document control rules.

EXECUTIVE SUMMARY – Result: Complied

A sample of this product was tested and the result above was confirmed in accordance with FCC Part 15 Subpart C (15.209).



Certificate #3686.03

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ACCREDITATION

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1 Summary of Test

1.1 Modification history of the test report

| Document Number | Modification History | Issue Date |
|-----------------|----------------------|-------------------------|
| JPD-TR-20231-0 | First Issue | Refer to the cover page |

1.2 Standards

CFR47 FCC Part 15 Subpart C (15.209)

1.3 Test methods

ANSI C63.10-2013

1.4 Deviation from standards

None

1.5 List of applied test(s) of the EUT

| Test item section | Test item | Condition | Result | Remark |
|-----------------------|---|-----------|--------|--------|
| 2.1049 RSS-Gen 6.7 | Occupied Bandwidth | Radiated | PASS | - |
| 15.209 RSS-Gen 8.9 | Transmitter Radiated Spurious Emissions | Radiated | PASS | - |
| 15.207 RSS-Gen 8.8 | AC Power Line Conducted Emissions | Conducted | PASS | - |

1.6 Test information

None

1.7 Test set up

Table-top

1.8 Test period

16-December-2020 - 15-January-2021

2 Equipment Under Test

All information in this chapter was provided by the applicant.

2.1 EUT information

| | |
|----------------------------|---|
| Applicant | KYOCERA Corporation Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku Yokohama-shi, Kanagawa, Japan Phone: +81-45-943-6253 Fax: +81-45-943-6314 |
| Equipment Under Test (EUT) | Mobile Phone |
| Model number | EB1065 |
| Serial number | 359787710020784 |
| Trade name | Kyocera |
| Number of sample(s) | 2 |
| EUT condition | Pre-Production |
| Power rating | Battery: DC 3.85 V |
| Size | (W) 80.0 mm × (D) 20.0 mm × (H) 168.0 mm |
| Environment | Indoor and Outdoor use |
| Terminal limitation | -20 °C to 60 °C |
| Hardware version | DMT2 |
| Software version | 0.070VE |
| Firmware version | Not applicable |
| RF Specification | |
| Frequency range | 110-205kHz |
| Antenna type | Loop antenna |

2.2 Modification to the EUT

The table below details modifications made to the EUT during the test project.

| Modification State | Description of Modification | Modification fitted by | Date of Modification |
|---|------------------------------|------------------------|----------------------|
| Model: EB1065, Serial Number: 359787710020784 | | | |
| 0 | As supplied by the applicant | Not Applicable | Not Applicable |



Japan

2.3 Variation of family model(s)

2.3.1 List of family model(s)

Not applicable

2.3.2 Reason for selection of EUT

Not applicable

2.4 Operating mode

[Normal Operation]

- i) EUT is setup on the wireless charge stand.

3 Configuration of Equipment

Numbers assigned to equipment on the diagram in “3.3 System configuration” correspond to the list in “3.1 Equipment used” and “3.2 Cable(s) used”.

This test configuration is based on the manufacture’s instruction.

Cabling and setup(s) were taken into consideration and test data was taken under worse case condition.

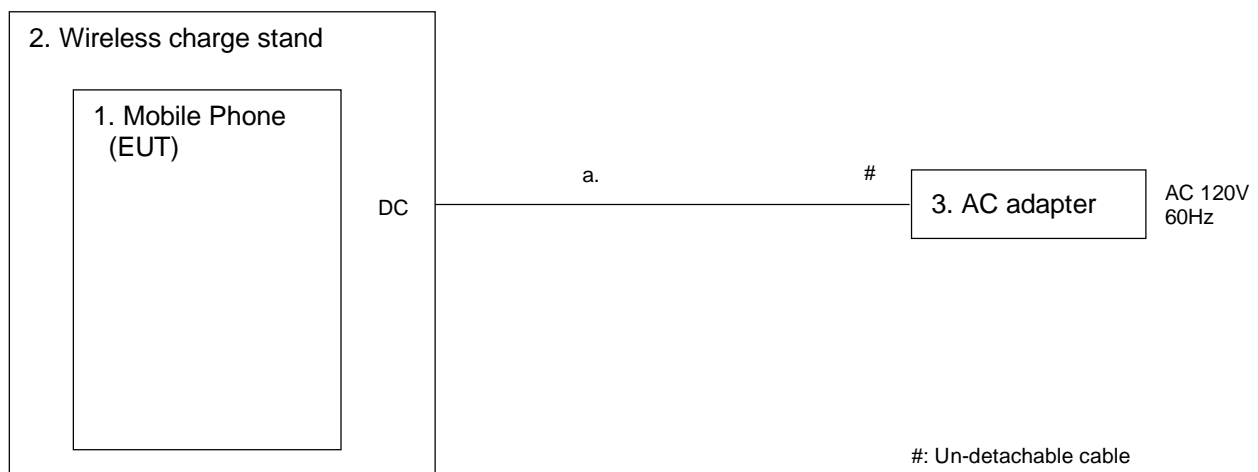
3.1 Equipment used

| No. | Equipment | Company | Model No. | Serial No. | FCC ID/DoC | Comment |
|-----|-----------------------|---------|-----------|-----------------|------------|---------|
| 1 | Mobile Phone | KYOCERA | EB1065 | 359787710020784 | JOYEB1065 | EUT |
| 2 | Wireless charge stand | KDDI | 0102PUA | 007217 | N/A | - |
| 3 | AC Adapter | KDDI | 0301PQA | N/A | N/A | - |

3.2 Cable(s) used

| No. | Equipment | Length[m] | Shield | Connector | Comment |
|-----|-----------|-----------|--------|-----------|---------|
| a | DC cable | 1.5 | Yes | Metal | - |

3.3 System configuration



4 Test Result

4.1 Occupied Bandwidth

4.1.1 Measurement procedure

[FCC 2.1049, RSS-Gen 6.7]

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99% bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

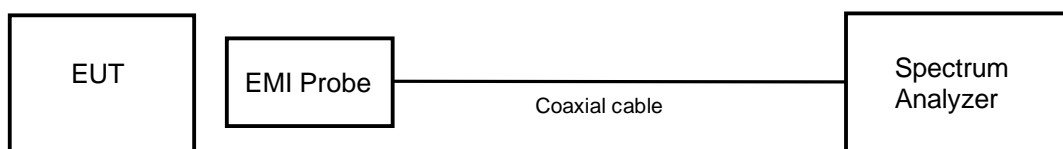
The spectrum analyzer is set to;

- RBW=300Hz, VBW=1kHz, Span=10kHz, Sweep=auto

The test mode of EUT is as follows.

- Normal Operation

- Test configuration



4.1.2 Limit

None

4.1.3 Measurement result

Date : 15-January-2021

Temperature : 23.7 [°C]

Humidity : 29.4 [%]

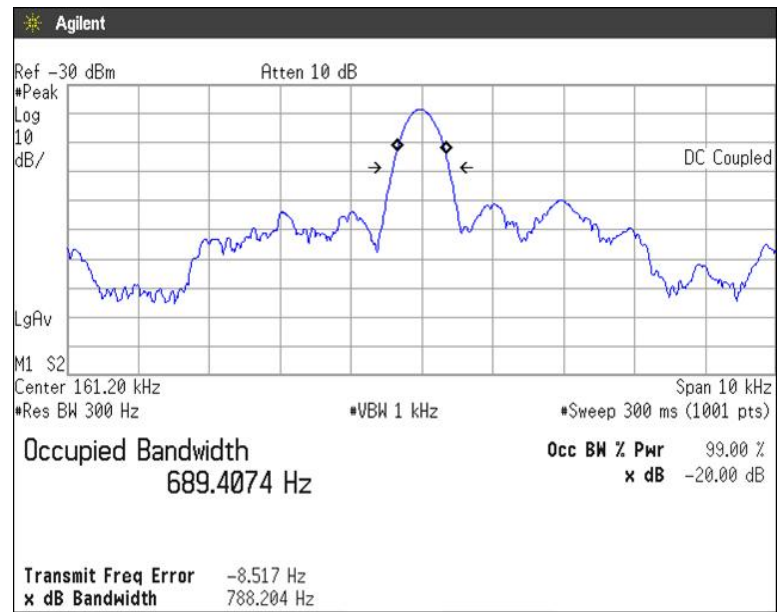
Test place : Shielded room No.4

Test engineer :

Tadahiro Seino

| Frequency (kHz) | Occupied Bandwidth (kHz) |
|--------------------|-----------------------------|
| 161.20 | 0.6894074 |

4.1.4 Trace data



4.2 Radiated Emissions

4.2.1 Measurement procedure

[FCC 15.209, RSS-Gen 8.9]

Test was applied by following conditions.

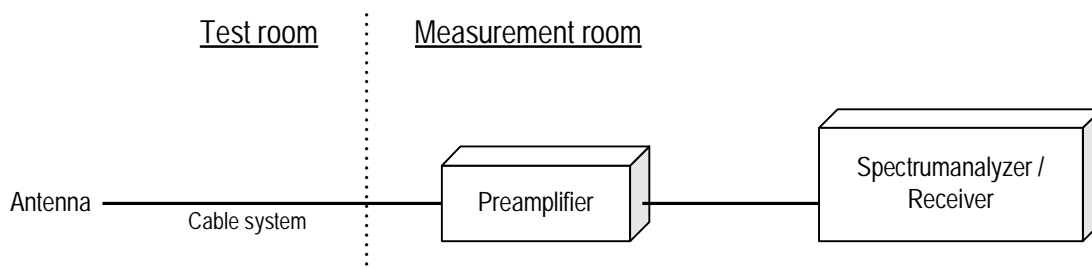
| | |
|-------------------|---|
| Test method | : ANSI C63.10 |
| Frequency range | : 9kHz to 30MHz |
| Test place | : 3m Semi-anechoic chamber |
| EUT was placed on | : Styrofoam table / (W)1.0m × (D)1.0m × (H)0.8m |
| Antenna distance | : 3m |

Test receiver setting

| | |
|-------------|---|
| - Detector | : Average (9kHz-90kHz, 110kHz-490kHz), Quasi-peak |
| - Bandwidth | : 200Hz, 9kHz |

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Then, emission measurements up to 30MHz were performed with test receiver in above setting. The turntable and the Loop antenna are rotated by 360 degrees and stopped at azimuth of producing the maximum emission. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition.

- Test configuration



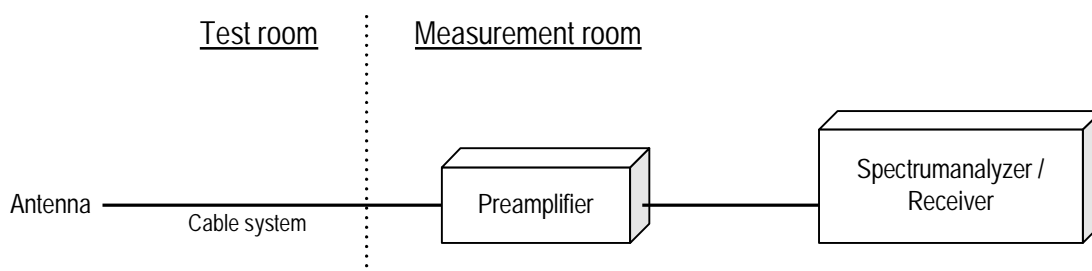
Test was applied by following conditions.

| | |
|-------------------|---|
| Test method | : ANSI C63.10 |
| Frequency range | : 30MHz to 1000MHz |
| Test place | : 3m Semi-anechoic chamber |
| EUT was placed on | : Styrofoam table / (W)1.0m × (D)1.0m × (H)0.8m |
| Antenna distance | : 3m |

| | |
|-----------------------|--------------|
| Test receiver setting | |
| - Detector | : Quasi-peak |
| - Bandwidth | : 120kHz |

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Then, emission measurements up to 1000MHz were performed with test receiver in above setting. In order to find the maximum emissions, antenna is adjusted between 1m and 4m in height and varied its polarization (horizontal and vertical), and EUT azimuth was also varied by rotating turntable 0 to 360 degrees. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition.

- Test configuration



4.2.2 Calculation method

[9kHz to 150kHz]

Emission level = Reading + (Ant. factor + Cable system loss)

Margin = Limit – Emission level

[150kHz to 1000MHz]

Emission level = Reading + (Ant. factor + Cable system loss – Amp. Gain)

Margin = Limit – Emission level

4.2.3 Limit

| Frequency [MHz] | Field strength | | Distance [m] |
|--------------------|-------------------|-------------------|-----------------|
| | [uV/m] | [dBuV/m] | |
| 0.009-0.490 | $2400 / F$ [kHz] | $20\log E$ [uV/m] | 300 |
| 0.490-1.705 | $24000 / F$ [kHz] | $20\log E$ [uV/m] | 30 |
| 1.705-30 | 30 | 29.5 | 30 |
| 30-88 | 100 | 40.0 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46.0 | 3 |
| Above 960 | 500 | 54.0 | 3 |

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level [dBuV/m] = $20\log$ Emission [uV/m]
3. Measurements were corrected to 300m using $40\log (3/300) = -80.0\text{dB}$
Measurements were corrected to 30m using $40\log (3/30) = -40.0\text{dB}$

4.2.4 Test data

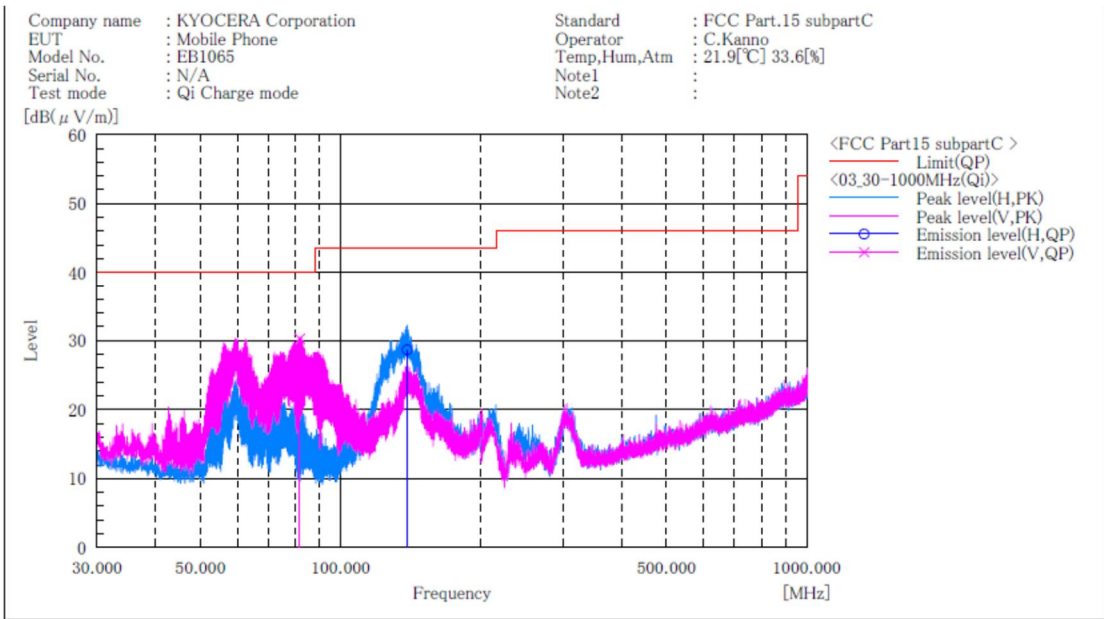
Date : 16-December-2020
 Temperature : 21.9 [°C]
 Humidity : 33.6 [%]
 Test place : 3m Semi-anechoic chamber

Test engineer : Chiaki Kanno

[9kHz to 30MHz]

| Frequency (MHz) | Reading [dBuV] At 3m | c.f [dB(1/m)] | Result [dBuV/m] At 3m | Result [dBuV/m] At 300/30m | Limit [dBuV/m] At 300/30m | Margin (dB) | Result |
|-----------------|----------------------|---------------|-----------------------|----------------------------|---------------------------|-------------|--------|
| 0.024 | 2.5 | 24.9 | 27.4 | -52.6 | 40.0 | 92.6 | PASS |
| 0.057 | 17.6 | 24.7 | 42.3 | -37.7 | 32.5 | 70.2 | PASS |
| 0.077 | 12.0 | 24.6 | 36.6 | -43.4 | 29.9 | 73.3 | PASS |
| 0.160 | 71.3 | -8.2 | 63.1 | -16.9 | 23.5 | 40.4 | PASS |
| 0.317 | 48.8 | -8.1 | 40.7 | -39.3 | 17.6 | 56.9 | PASS |
| 0.481 | 50.8 | -8.1 | 42.7 | -37.3 | 14.0 | 51.3 | PASS |
| 0.503 | 49.4 | -8.1 | 41.3 | 1.3 | 33.6 | 32.3 | PASS |
| 0.669 | 40.8 | -8.1 | 32.7 | -7.3 | 31.1 | 38.4 | PASS |
| 0.849 | 42.1 | -8.0 | 34.1 | -5.9 | 29.0 | 34.9 | PASS |

[30MHz to 1000MHz]



Final Result

| No. | Frequency | (P) | Reading | c.f | Result | Limit | Margin | Height | Angle |
|-----|-----------|-----|----------|-----------|------------|------------|--------|--------|-------|
| | [MHz] | | QP | | QP | QP | QP | | |
| | | | [dB(μV)] | [dB(1/m)] | [dB(μV/m)] | [dB(μV/m)] | [dB] | [cm] | [°] |
| 1 | 81.660 | V | 46.5 | -16.2 | 30.3 | 40.0 | 9.7 | 100.0 | 181.0 |
| 2 | 138.800 | H | 41.8 | -13.1 | 28.7 | 43.5 | 14.8 | 305.0 | 110.0 |

4.3 AC Power Line Conducted Emissions

4.3.1 Measurement procedure

[FCC 15.207, RSS-Gen 8.8]

Test was applied by following conditions.

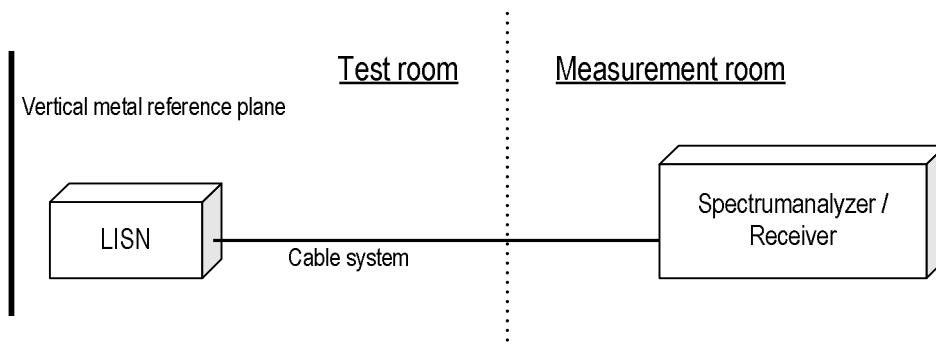
| | |
|--------------------------------|--|
| Test method | : ANSI C63.10 |
| Frequency range | : 0.15 MHz to 30 MHz |
| Test place | : 3 m Semi-anechoic chamber |
| EUT was placed on | : FRP table / (W)2.0 m × (D)1.0 m × (H)0.8 m |
| Vertical Metal Reference Plane | : (W)2.0 m × (H)2.0 m 0.4 m away from EUT |
| Test receiver setting | |
| - Detector | : Quasi-peak, Average |
| - Bandwidth | : 9 kHz |

EUT and peripherals are connected to 50Ω/50μH Line Impedance Stabilization Network (LISN) which are connected to reference ground plane, and are placed 80cm away from EUT. Excess of AC power cable is bundled in center.

LISN for peripheral is terminated in 50Ω.

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Maximum emission configuration is determined by manipulating the EUT, peripherals, interconnecting cables. Then, emission measurements are performed with test receiver in above setting to each current-carrying conductor of the mains port. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits.

- Test configuration



4.3.2 Calculation method

Emission level = Reading + (LISN. Factor + Cable system loss)

Margin = Limit – Emission level

Example:

Limit @ 6.770 MHz : 60.0 dB μ V(Quasi-peak)

: 50.0 dB μ V(Average)

(Quasi peak) Reading = 41.2 dB μ V c.f = 10.3 dB

Emission level = 41.2 + 10.3 = 51.5 dB μ V

Margin = 60.0 – 51.5 = 8.5 dB

(Average) Reading = 35.0 dB μ V c.f = 10.3 dB

Emission level = 35.0 + 10.3 = 45.3 dB μ V

Margin = 50.0 – 45.3 = 4.7 dB

4.3.3 Limit

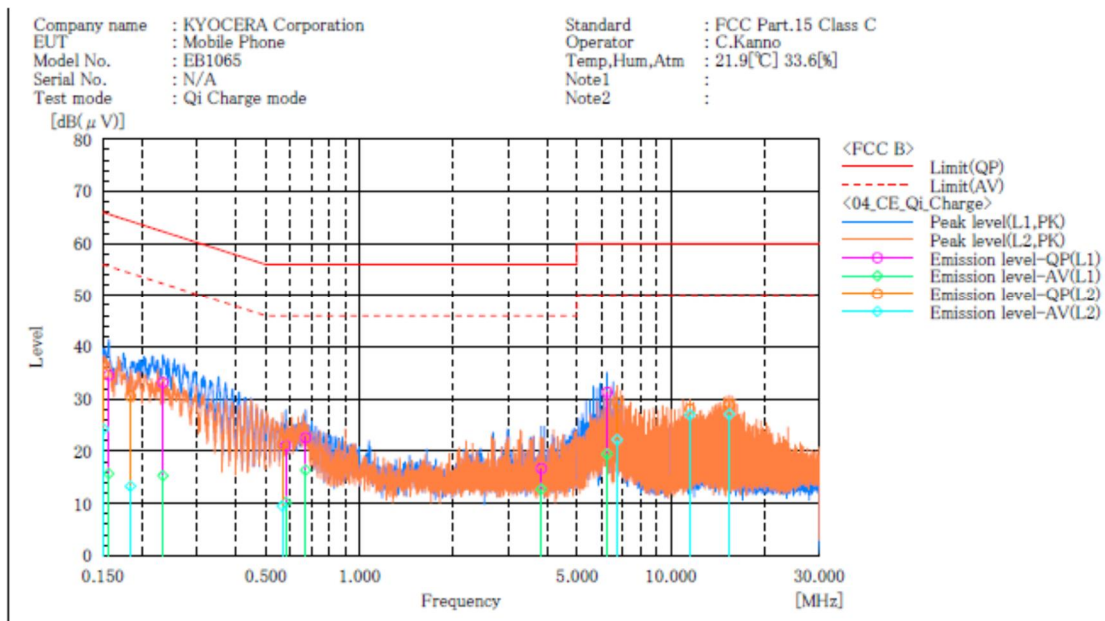
| Frequency [MHz] | Limit | |
|--------------------|-----------------|-----------------|
| | QP [dB μ V] | AV [dB μ V] |
| 0.15-0.5 | 66-56* | 56-46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

4.3.4 Test data

Date : 17-December-2020
 Temperature : 22.2 [°C]
 Humidity : 37.6 [%]
 Test place : 3m Semi-anechoic chamber

Test engineer : Chiaki Kanno



Final Result

| L1 Phase | | | | | | | | | | |
|----------|-----------------|---------------------|----------------------|-----------|--------------------|---------------------|-------------------|-------------------|----------------|-----------------|
| No. | Frequency [MHz] | Reading QP [dB(μV)] | Reading CAV [dB(μV)] | c. f [dB] | Result QP [dB(μV)] | Result CAV [dB(μV)] | Limit QP [dB(μV)] | Limit AV [dB(μV)] | Margin QP [dB] | Margin CAV [dB] |
| 1 | 0.157 | 24.3 | 5.4 | 10.3 | 34.6 | 15.7 | 65.6 | 55.6 | 31.0 | 39.9 |
| 2 | 0.234 | 23.0 | 5.1 | 10.2 | 33.2 | 15.3 | 62.3 | 52.3 | 29.1 | 37.0 |
| 3 | 0.580 | 10.8 | -0.1 | 10.3 | 21.1 | 10.2 | 56.0 | 46.0 | 34.9 | 35.8 |
| 4 | 0.672 | 12.3 | 6.1 | 10.3 | 22.6 | 16.4 | 56.0 | 46.0 | 33.4 | 29.6 |
| 5 | 3.839 | 6.3 | 2.3 | 10.4 | 16.7 | 12.7 | 56.0 | 46.0 | 39.3 | 33.3 |
| 6 | 6.237 | 20.8 | 9.0 | 10.5 | 31.3 | 19.5 | 60.0 | 50.0 | 28.7 | 30.5 |

| L2 Phase | | | | | | | | | | |
|----------|-----------------|---------------------|----------------------|-----------|--------------------|---------------------|-------------------|-------------------|----------------|-----------------|
| No. | Frequency [MHz] | Reading QP [dB(μV)] | Reading CAV [dB(μV)] | c. f [dB] | Result QP [dB(μV)] | Result CAV [dB(μV)] | Limit QP [dB(μV)] | Limit AV [dB(μV)] | Margin QP [dB] | Margin CAV [dB] |
| 1 | 0.151 | 24.7 | 14.0 | 10.3 | 35.0 | 24.3 | 65.9 | 55.9 | 30.9 | 31.6 |
| 2 | 0.184 | 20.3 | 3.0 | 10.3 | 30.6 | 13.3 | 64.3 | 54.3 | 33.7 | 41.0 |
| 3 | 0.566 | 11.0 | -0.8 | 10.3 | 21.3 | 9.5 | 56.0 | 46.0 | 34.7 | 36.5 |
| 4 | 6.723 | 18.8 | 11.6 | 10.6 | 29.4 | 22.2 | 60.0 | 50.0 | 30.6 | 27.8 |
| 5 | 11.502 | 17.4 | 16.3 | 10.7 | 28.1 | 27.0 | 60.0 | 50.0 | 31.9 | 23.0 |
| 6 | 15.387 | 18.1 | 16.3 | 10.8 | 28.9 | 27.1 | 60.0 | 50.0 | 31.1 | 22.9 |



Japan

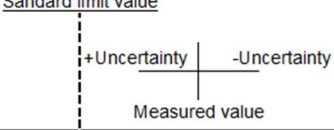



5 Antenna requirement

According to FCC section 15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device. The antenna is a special antenna mounted inside of the EUT. Therefore, the EUT complies with the antenna requirement of FCC section 15.203.

6 Measurement Uncertainty

Expanded uncertainties stated are calculated with a coverage Factor $k=2$.
Please note that these results are not taken into account when measurement uncertainty considerations contained in ETSI TR 100 028 Parts 1 and 2 determining compliance or non-compliance with test result.

| Test item | Measurement uncertainty |
|--|-------------------------|
| Conducted emission, AMN (9 kHz – 150 kHz) | ± 3.7 dB |
| Conducted emission, AMN (150 kHz – 30 MHz) | ± 3.3 dB |
| Radiated emission (9kHz – 30 MHz) | ± 3.7 dB |
| Radiated emission (30 MHz – 1000 MHz) | ± 5.3 dB |
| Radiated emission (1 GHz – 6 GHz) | ± 4.4 dB |
| Radiated emission (6 GHz – 18 GHz) | ± 4.7 dB |
| Radiated emission (18 GHz – 40 GHz) | ± 5.8 dB |
| Radio Frequency | $\pm 1.4 \cdot 10^{-8}$ |
| RF power, conducted | ± 0.8 dB |
| Temperature | ± 0.6 °C |
| Humidity | ± 1.2 % |
| Voltage (DC) | ± 0.4 % |
| Voltage (AC, <10kHz) | ± 0.2 % |

| Judge | Measured value and standard limit value | |
|-------|---|--|
| PASS | Case1  <p>Even if it takes uncertainty into consideration, a standard limit value is fulfilled.</p> | |
| | Case2  <p>Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.</p> | |
| FAIL | Case3  <p>Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.</p> | |
| | Case4  <p>Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.</p> | |

7 Laboratory Information

Testing was performed and the report was issued at:

TÜV SÜD Japan Ltd. Yonezawa Testing Center

Address: 5-4149-7 Hachimanpara, Yonezawa-shi, Yamagata, 992-1128 Japan
Phone: +81-238-28-2881
Fax: +81-238-28-2888

Accreditation and Registration

A2LA

Certificate #3686.03

VLAC

Accreditation No.: VLAC-013

BSMI

Laboratory Code: SL2-IN-E-6018, SL2-A1-E-6018

Innovation, Science and Economic Development Canada

ISED#: 4224A

VCCI Council

| Registration number | Expiration date |
|---------------------|-----------------|
| A-0166 | 03-July-2021 |

Appendix A. Test Equipment

Antenna port conducted test

| Equipment | Company | Model No. | Serial No. | Cal. Due | Cal. Date |
|-------------------|----------------------|----------------|------------|-------------|-------------|
| Spectrum analyzer | Agilent Technologies | E4440A | US44302655 | 31-Aug-2021 | 20-Aug-2020 |
| Microwave cable | SUHNER | SUCOFLEX102/2m | 31648 | 31-Mar-2021 | 26-Mar-2020 |
| EMI Probe | ANRITSU | MA2601C | N/A(1753) | 31-Oct-2021 | 08-Oct-2020 |

Radiated emission

| Equipment | Company | Model No. | Serial No. | Cal. Due | Cal. Date |
|---------------------------|----------------------|------------------|----------------|-------------|-------------|
| EMI Receiver | ROHDE&SCHWARZ | ESCI | 100765 | 30-Sep-2021 | 28-Sep-2020 |
| Spectrum analyzer | Agilent Technologies | E4440A | US40420937 | 31-Dec-2021 | 11-Dec-2020 |
| Preamplifier | SONOMA | 310 | 372170 | 30-Sep-2021 | 29-Sep-2020 |
| Loop antenna | ROHDE&SCHWARZ | HFH2-Z2 | 100515 | 30-Apr-2021 | 15-Apr-2020 |
| Attenuator | TAMAGAWA.ELEC | CFA-01NPJ-6 | N/A(S275) | 30-Jun-2021 | 04-Jun-2020 |
| Biconical antenna | Schwarzbeck | VHBB9124/BBA9106 | 1333 | 31-Dec-2021 | 15-Dec-2020 |
| Biconical antenna | Schwarzbeck | VHBB9124/BBA9106 | 1344 | 31-Dec-2020 | 04-Dec-2019 |
| Log-periodic antenna | Schwarzbeck | VUSLP9111B | 344 | 30-Apr-2021 | 17-Apr-2020 |
| Attenuator | TAMAGAWA.ELEC | CFA-01NPJ-6 | N/A(S275) | 30-Jun-2021 | 04-Jun-2020 |
| Attenuator | TAMAGAWA.ELEC | CFA-10/3dB | N/A(S503) | 31-Jul-2021 | 20-Jul-2020 |
| Microwave cable | HUBER+SUHNER | SUCOFLEX104/9m | MY30037/4 | 31-Dec-2021 | 15-Dec-2020 |
| | | SUCOFLEX104/1m | my24610/4 | 31-Dec-2021 | 15-Dec-2020 |
| | | SUCOFLEX104/1.5m | SN MY19309/4 | 31-Dec-2021 | 17-Dec-2020 |
| | | SUCOFLEX106/7m | 41625/6 | 31-Dec-2021 | 15-Dec-2020 |
| PC | DELL | DIMENSION E521 | 75465BX | N/A | N/A |
| Software | TOYO Corporation | EP5/RE-AJ | 0611193/V5.6.0 | N/A | N/A |
| 3m Semi an-echoic Chamber | TOKIN | N/A | N/A(9002-NSA) | 31-May-2021 | 28-May-2020 |

Conducted emission at mains port

| Equipment | Company | Model No. | Serial No. | Cal. Due | Cal. Date |
|--------------------------------------|---------------------------------|-------------|-----------------|-------------|-------------|
| EMI Receiver | ROHDE&SCHWARZ | ESCI | 100765 | 30-Sep-2021 | 28-Sep-2020 |
| Attenuator | HUBER+SUHNER | 6810.01.A | N/A (S411) | 31-Jan-2021 | 18-Jan-2020 |
| Line impedance stabilization network | Kyoritsu Electrical Works, Ltd. | KNW-407F2 | 12-17-110-2 | 30-Jun-2021 | 03-Jun-2020 |
| Coaxial cable | FUJIKURA | 5D-2W/4m | N/A (S350) | 31-Jan-2021 | 18-Jan-2020 |
| Coaxial cable | FUJIKURA | 5D-2W/1m | N/A (S193) | 31-Jan-2021 | 18-Jan-2020 |
| Coaxial cable | HUBER+SUHNER | RG214/U/10m | N/A (S194) | 31-Jan-2021 | 18-Jan-2020 |
| PC | DELL | DIMENSION | 75465BX | N/A | N/A |
| Software | TOYO Corporation | EP5/CE-AJ | 0611193/V5.4.11 | N/A | N/A |

*: The calibrations of the above equipment are traceable to NIST or equivalent standards of the reference organizations.